Assignment 4

Operating System

Mutual Exclusion is used in this assignment so that the variables retain their value, and there is no dirty read.

It is achieved by using mutex lock like pthread\_mutex.

Synchronization is achieved by using conditional variables for street, repair, incoming and outgoing threads.

The conditional variables are use to signal between the threads.

When there is a outgoing car on street, the incoming thread will go into the wait. Likewise if there is incoming car on street, the outgoing thread will go into wait until a signal is received that the street is empty of incoming car.